

DEPARTMENT OF ANIMAL AND FOOD SCIENCES

Animal and Food Sciences Major

RECOMMENDED AREAS FOR ELECTIVES



The Animal and Food Sciences major applies the principles of biology, chemistry and biochemistry to animal agriculture and food systems. The program encompasses a wide range of instruction, including animal nutrition; animal health and molecular biology; food science and its interactions with animal agriculture, physiology, genetics, and reproduction; and dairy, livestock and poultry management. Depending on a student's interest, he or she may choose electives that direct their studies toward production systems; food safety; molecular biology and genetics; and equine and companion animals.

As they work on completing the general ANFS curriculum required of all majors, students are encouraged to choose elective courses that will allow them to focus on a particular interest within Animal & Food Sciences. Students should work with their faculty advisors to select their elective courses.

*Recommended focus areas and suggested courses include:*

**Production Systems**

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| ANFS 311 | Genetics Lab                  |
| ANFS 424 | Non Ruminant Nutrition        |
| ANFS 454 | Ruminant Nutrition            |
| ANFS 441 | Reproductive Physiology       |
| ANFS 442 | Lactation Physiology          |
| ANFS XXX | Food Animal Production Course |
| EGTE 103 | Land and Water Management     |
| FREC 201 | Records and Accounts          |
| FREC 305 | Management and Leadership     |
| PLSC 151 | Crop Science                  |
| PLSC 204 | Soil Science                  |
| PLSC 401 | Agronomic Crop Science        |

**Food Safety**

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| ANFS 230 | Food Borne Diseases           |
| ANFS 439 | Food Microbiology             |
| ANFS 449 | Food Biotechnology            |
| ANFS 4XX | Food Animal Production Course |
| BISC 300 | Microbiology                  |
| FREC 316 | Economics of Biotechnology    |

**Equine and Companion Animals**

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| ANFS 220 | Intro Equine Science           |
| ANFS 261 | Companion Animal Nutrition     |
| ANFS 436 | Immunology of Domestic Animals |
| BUAD 100 | Introduction to Business       |
| ENWC 410 | Medical Veterinary Entomology  |
| FREC 201 | Records and Accounts           |

**Molecular Biology and Genetics**

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| ANFS 311 | Genetics Lab                     |
| ANFS 435 | Animal Virology                  |
| ANFS 436 | Immunology of Domestic Animals   |
| ANFS 449 | Food Biotechnology               |
| ANFS 470 | Principals of Molecular Genetics |
| ANFS 644 | Bioinformatics                   |
| BISC 401 | Molecular Biology of the Cell    |
| FREC 316 | Economics of Biotechnology       |

